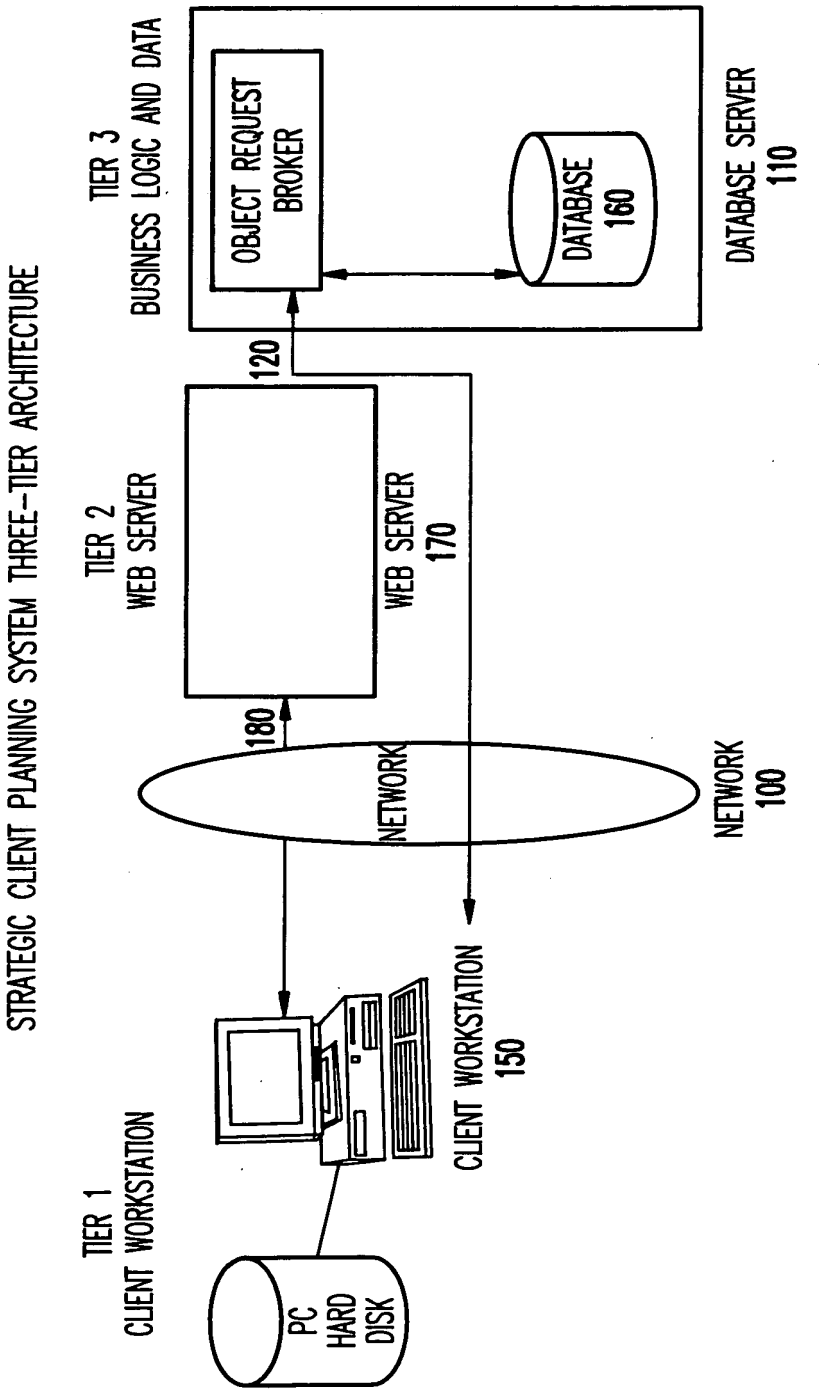
STRATEGIC CLIENT PLANNING SYSTEM THREE-TIER ARCHITECTURE
TIER 3
BUSINESS LOGIC AND DATA
OBJECT REQUEST BROKER
DATABASE 160
DATABASE SERVER 110
120
TIER 2
WEB SERVER
WEB SERVER 170
180
NETWORK
NETWORK 100
CLIENT WORKSTATION 150
TIER 1
CLIENT WORKSTATION
PC HARD DISK

FIG.1

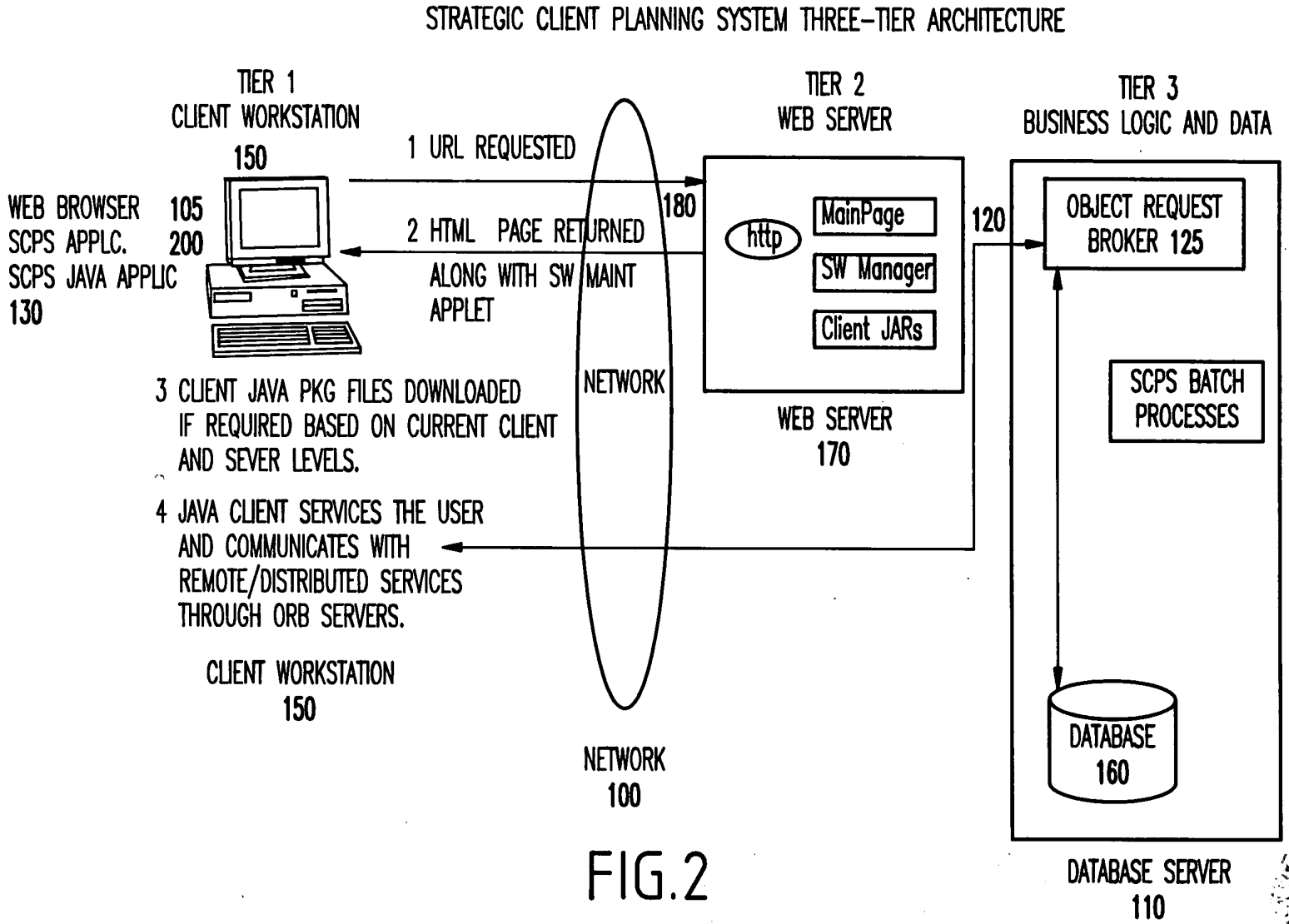

FIG.2

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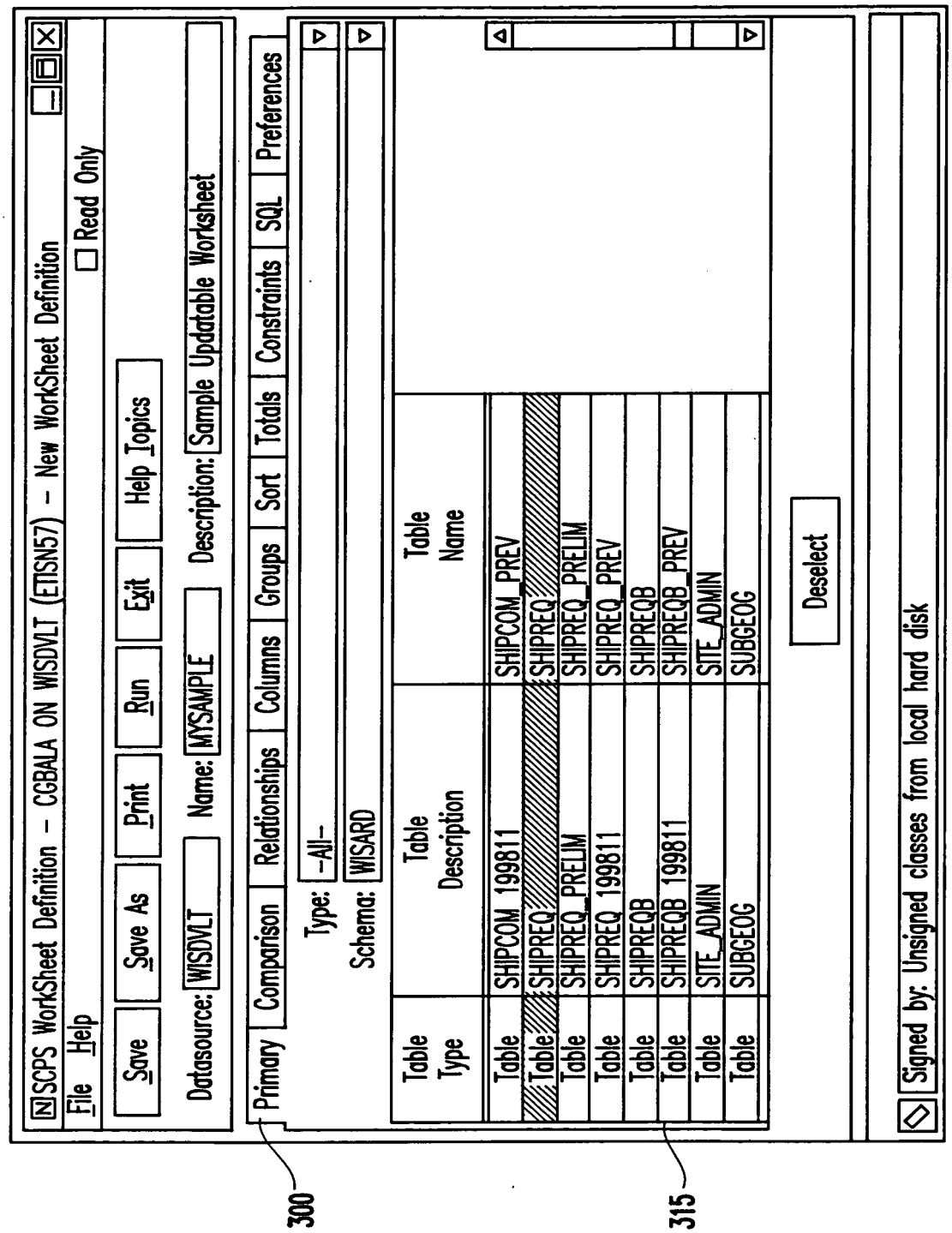

SCPS WorkSheet Definition – CGBALA ON WISDVLT (ETISN57) – New WorkSheet Definition
File Help
Save
Save As
Print
Run
Exit
Help Topics
Read Only
Datasource: WISDVLT
Name: MYSAMPLE
Description: Sample Updatable Worksheet
Primary
Comparison
Relationships
Columns
Groups
Sort
Totals
Constraints
SQL
Preferences
Type: -All-
Schema: WISARD
Table Type
Table Description
Table Name
Table SHIPCOM 199811 SHIPCOM_PREV
Table SHIPREQ SHIPREQ
Table SHIPREQ_PRELIM SHIPREQ_PRELIM
Table SHIPREQ 199811 SHIPREQ_PREV
Table SHIPREQB SHIPREQB
Table SHIPREQB 199811 SHIPREQB_PREV
Table SITE_ADMIN SITE_ADMIN
Table SUBGEOG SUBGEOG
Deselect
Signed by: Unsigned classes from local hard disk
300
315

FIG.3A

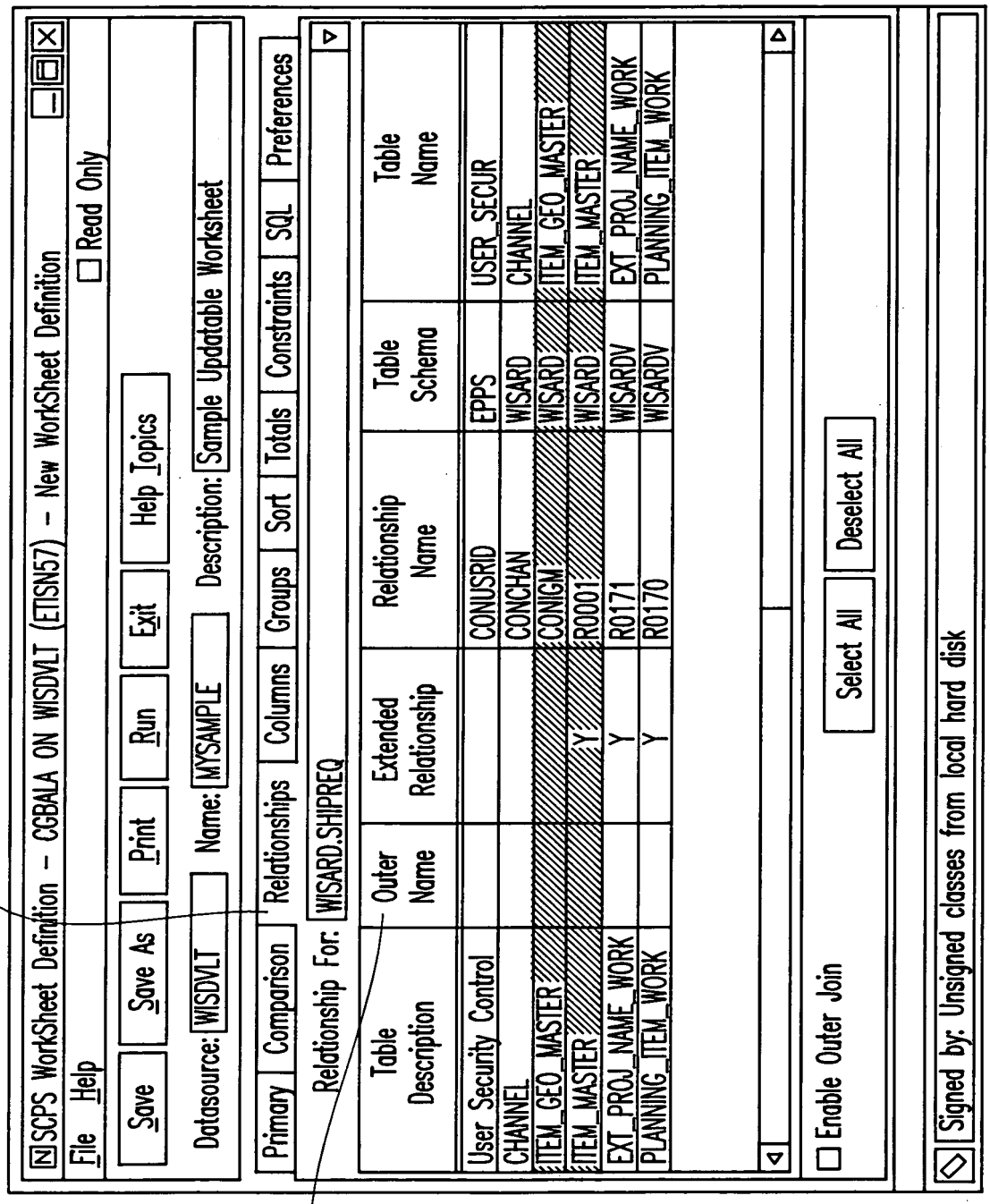

310
312
SCPS WorkSheet Definition – CGBALA ON WISDVLT (ETISN57) – New WorkSheet Definition
File Help
Read Only
Save
Save As
Print
Run
Exit
Help Topics
Datasource: WISDVLT
Name: MYSAMPLE
Description: Sample Updatable Worksheet
Primary
Comparison
Relationships
Columns
Groups
Sort
Totals
Constraints
SQL
Preferences
Relationship For: WISARD.SHIPREQ
Table Description
Outer Name
Extended Relationship
Relationship Name
Table Schema
Table Name
User Security Control
CONUSRID
EPPS
USER_SECUR
CHANNEL
CONCHAN
WISARD
CHANNEL
ITEM_GEO_MASTER
CONIGM
WISARD
ITEM_GEO_MASTER
ITEM_MASTER
Y
R0001
WISARD
ITEM_MASTER
EXT_PROJ_NAME_WORK
Y
R0171
WISARDV
EXT_PROJ_NAME_WORK
PLANNING_ITEM_WORK
Y
R0170
WISARDV
PLANNING_ITEM_WORK
Enable Outer Join
Select All
Deselect All
Signed by: Unsigned classes from local hard disk

FIG.3B

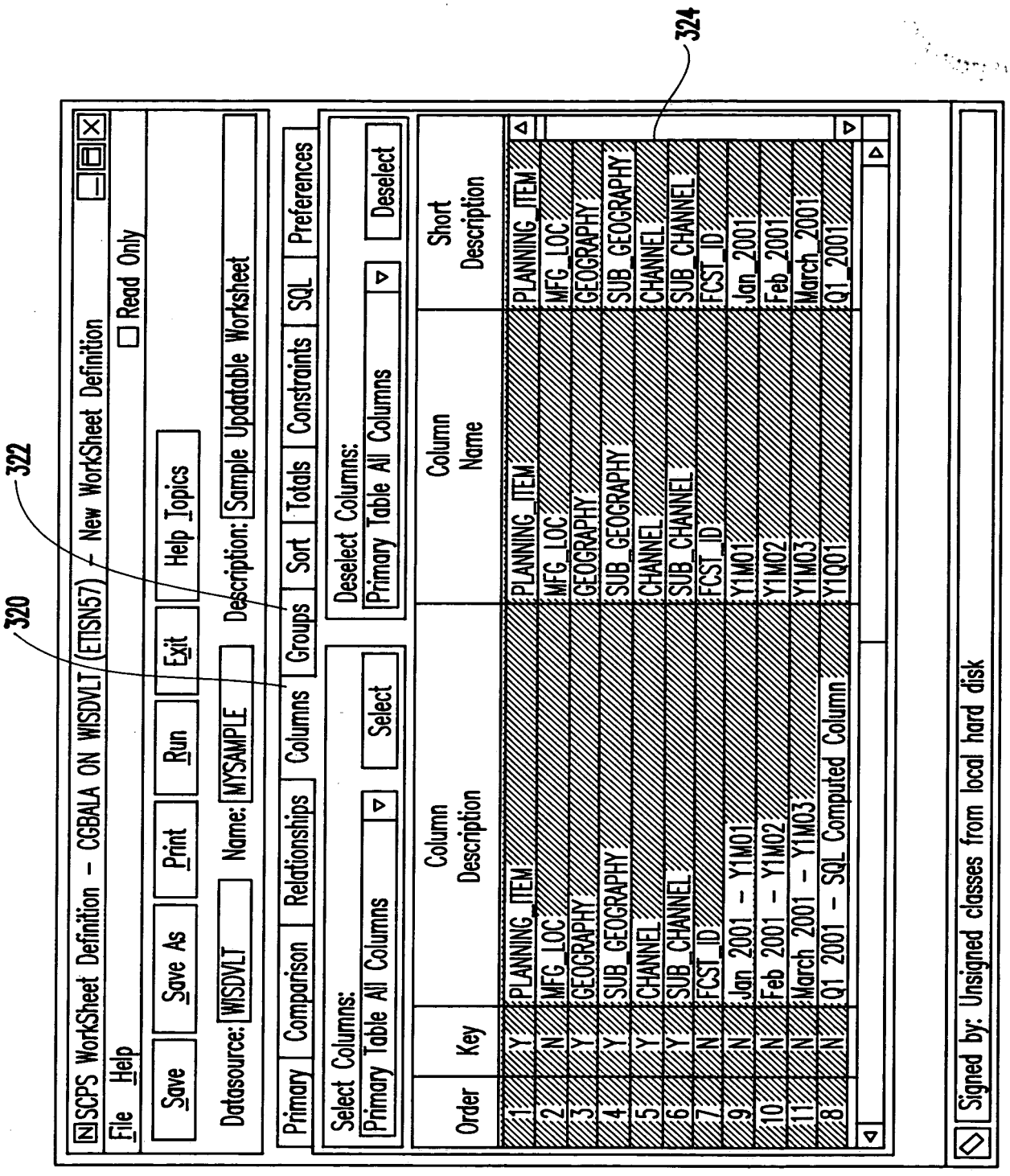
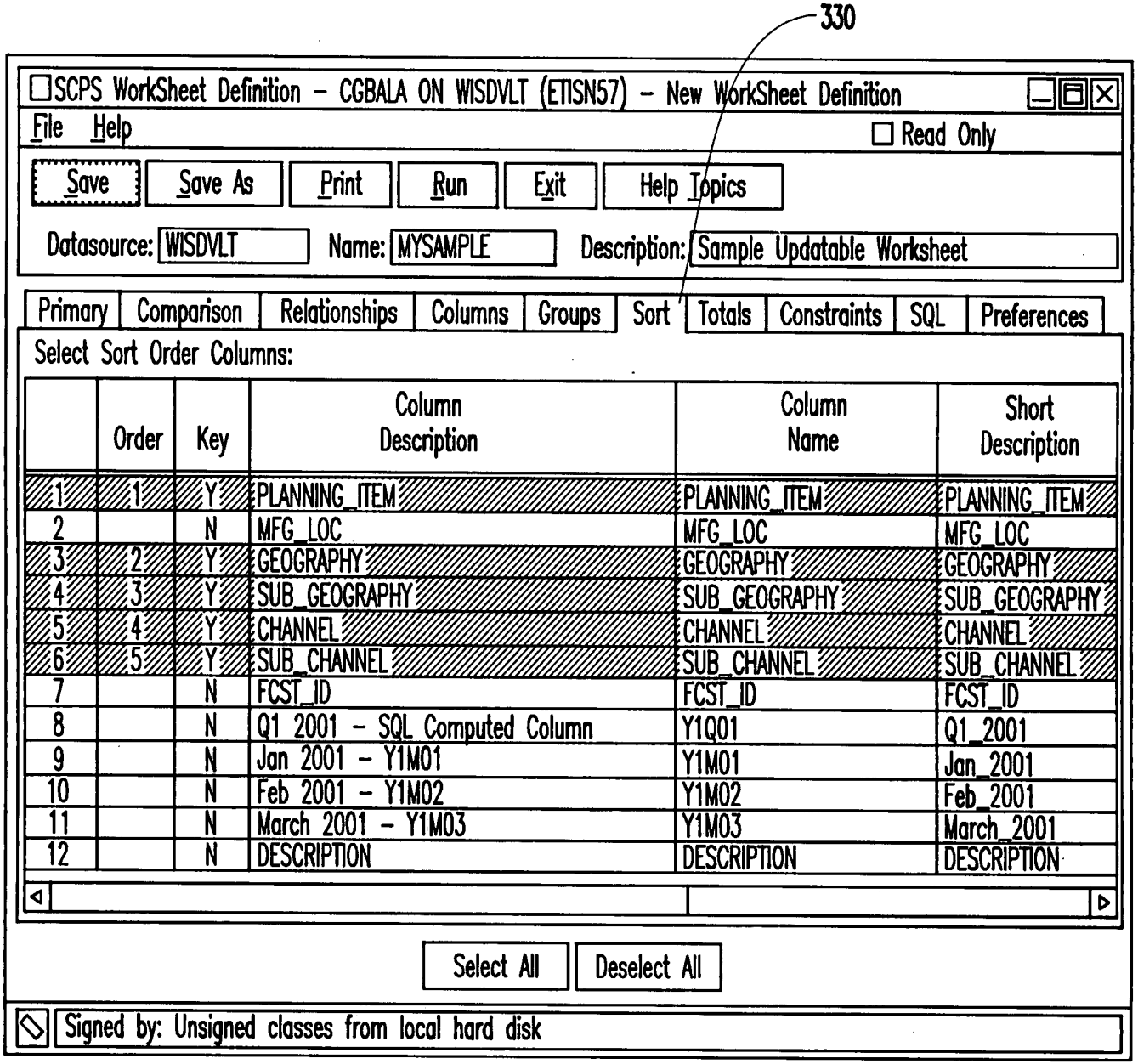

320
322
324
SCPS WorkSheet Definition - CGBALA ON WISDVLT (ETSN57) - New WorkSheet Definition
File Help
Read Only
Save
Save As
Print
Run
Exit
Help Topics
Datasource: WISDVLT
Name: MYSAMPLE
Description: Sample Updatable Worksheet
Primary
Comparison
Relationships
Columns
Groups
Sort
Totals
Constraints
SQL
Preferences
Select Columns:
Primary Table All Columns
Select
Deselect Columns:
Primary Table All Columns
Deselect
Order
Key
Column Description
Column Name
Short Description
1 Y PLANNING_ITEM PLANNING_ITEM PLANNING_ITEM
2 N MFG_LOC MFG_LOC MFG_LOC
3 Y GEOGRAPHY GEOGRAPHY GEOGRAPHY
4 Y SUB_GEOGRAPHY SUB_GEOGRAPHY SUB_GEOGRAPHY
5 Y CHANNEL CHANNEL CHANNEL
6 Y SUB_CHANNEL SUB_CHANNEL SUB_CHANNEL
7 N FCST_ID FCST_ID FCST_ID
9 N Jan 2001 - Y1M01 Y1M01 Jan_2001
10 N Feb 2001 - Y1M02 Y1M02 Feb_2001
11 N March 2001 - Y1M03 Y1M03 March_2001
8 N Q1 2001 - SQL Computed Column Y1Q01 Q1_2001
Signed by: Unsigned classes from local hard disk

FIG.3C



	Order	Key	Column Description	Column Name	Short Description
1	1	Y	PLANNING_ITEM	PLANNING_ITEM	PLANNING_ITEM
2		N	MFG_LOC	MFG_LOC	MFG_LOC
3	2	Y	GEOGRAPHY	GEOGRAPHY	GEOGRAPHY
4	3	Y	SUB_GEOGRAPHY	SUB_GEOGRAPHY	SUB_GEOGRAPHY
5	4	Y	CHANNEL	CHANNEL	CHANNEL
6	5	Y	SUB_CHANNEL	SUB_CHANNEL	SUB_CHANNEL
7		N	FCST_ID	FCST_ID	FCST_ID
8		N	Q1 2001 - SQL Computed Column	Y1Q01	Q1_2001
9		N	Jan 2001 - Y1M01	Y1M01	Jan_2001
10		N	Feb 2001 - Y1M02	Y1M02	Feb_2001
11		N	March 2001 - Y1M03	Y1M03	March_2001
12		N	DESCRIPTION	DESCRIPTION	DESCRIPTION

FIG.3D

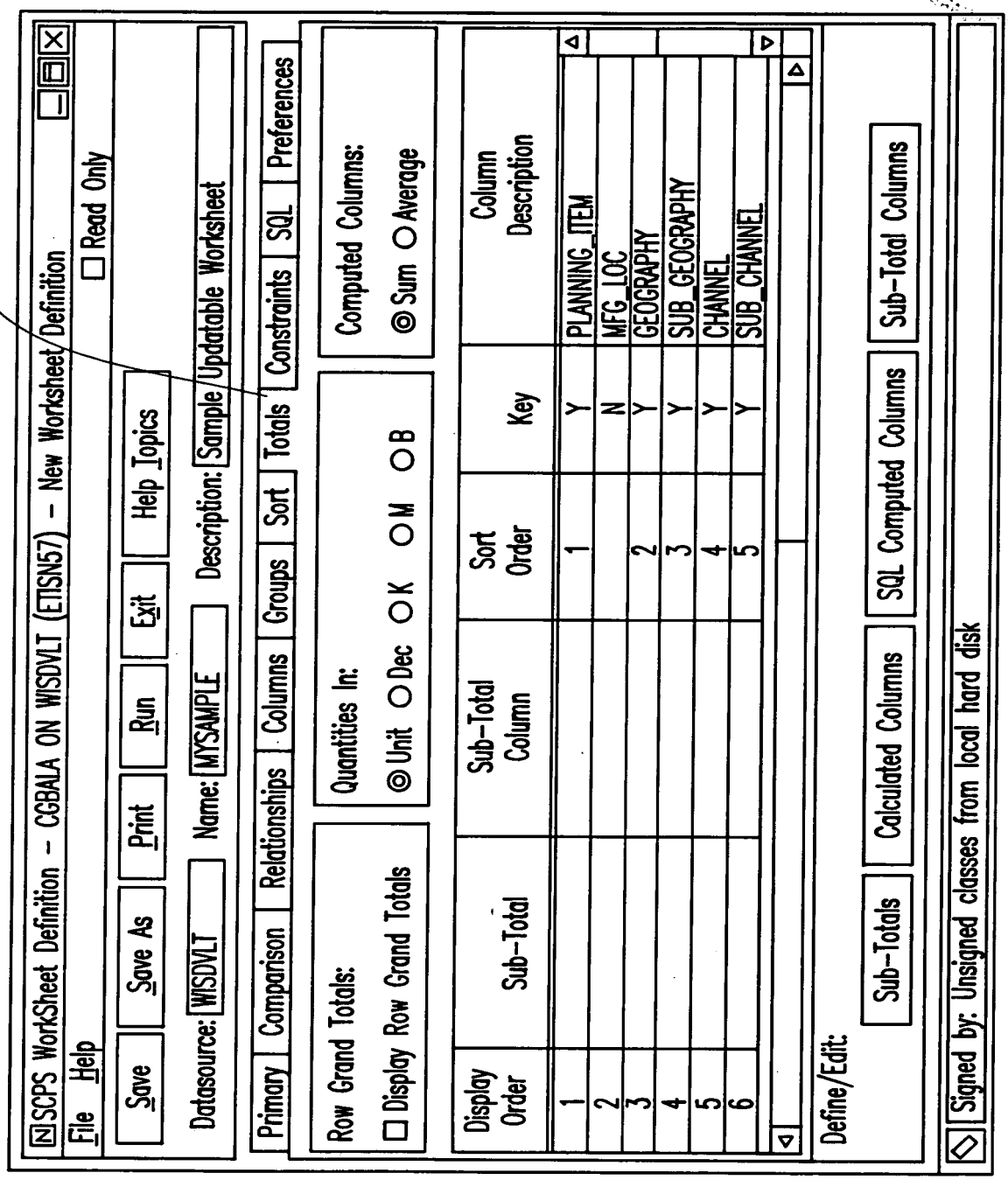

340
SCPS WorkSheet Definition - CGBALA ON WISDVLT (ETISN57) - New Worksheet Definition
File Help
Read Only
Save
Save As
Print
Run
Exit
Help Topics
Datasource: WISDVLT
Name: MYSAMPLE
Description: Sample Updatable Worksheet
Primary
Comparison
Relationships
Columns
Groups
Sort
Totals
Constraints
SQL
Preferences
Row Grand Totals:
Display Row Grand Totals
Quantities In:
Unit
Dec
K
M
B
Computed Columns:
Sum
Average
Display Order
Sub-Total
Sub-Total Column
Sort Order
Key
Column Description
1 Y PLANNING_ITEM
2 N MFG_LOC
3 Y GEOGRAPHY
4 Y SUB_GEOGRAPHY
5 Y CHANNEL
6 Y SUB_CHANNEL
Define/Edit:
Sub-Totals
Calculated Columns
SQL Computed Columns
Sub-Total Columns
Signed by: Unsigned classes from local hard disk

FIG.3E

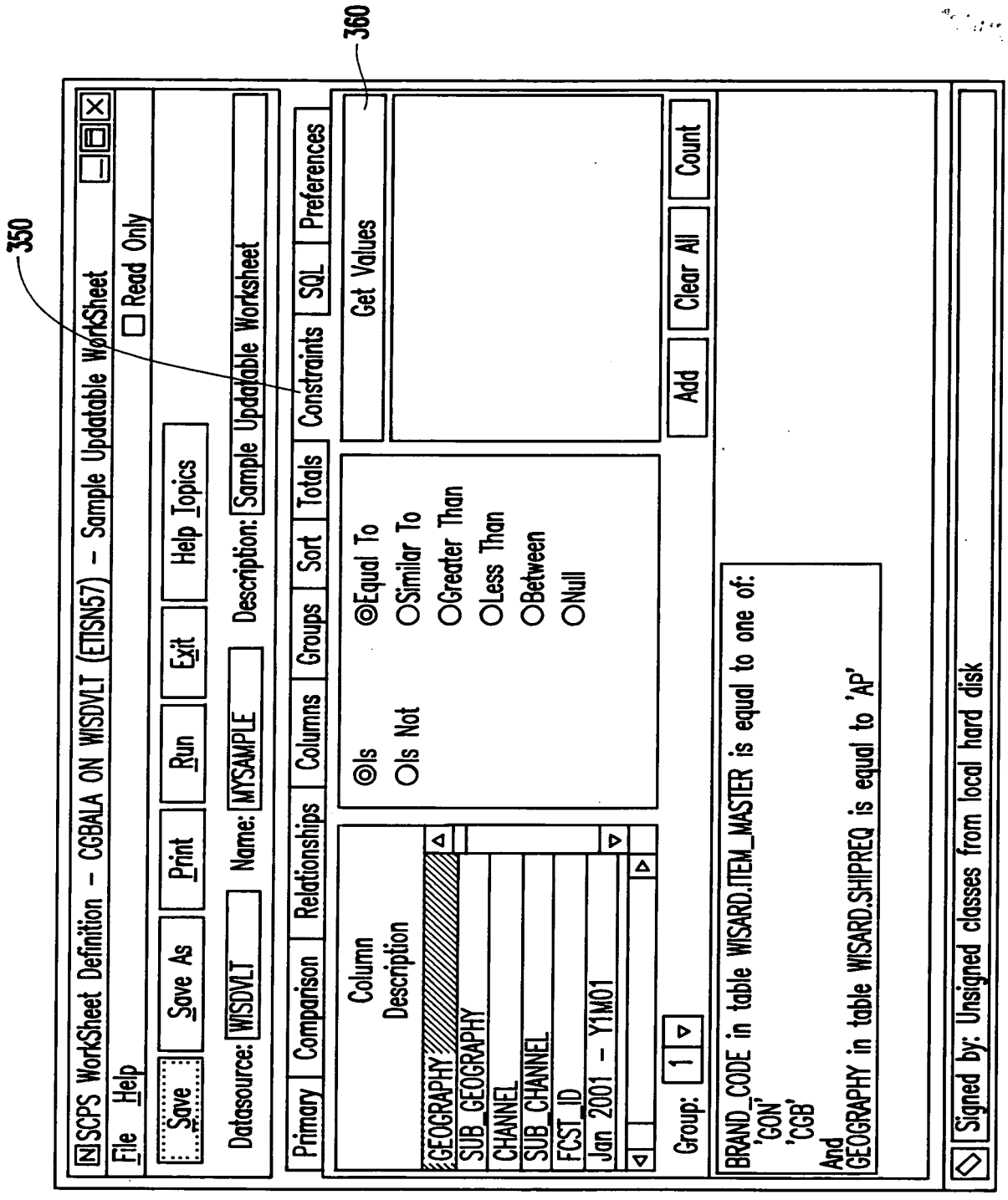

350
360
SCPS WorkSheet Definition - CGBALA ON WISDVLT (ETISN57) - Sample Updatable WorkSheet
File Help
Save
Save As
Print
Run
Exit
Help Topics
Read Only
Datasource: WISDVLT
Name: MYSAMPLE
Description: Sample Updatable Worksheet
Primary
Comparison
Relationships
Columns
Groups
Sort
Totals
Constraints
SQL
Preferences
Column
Description
GEOGRAPHY
SUB_GEOGRAPHY
CHANNEL
SUB_CHANNEL
FCST_ID
Jan 2001 - Y1M01
Group: 1
Is
Is Not
Equal To
Similar To
Greater Than
Less Than
Between
Null
Get Values
Add
Clear All
Count
BRAND_CODE in table WISARD.ITEM_MASTER is equal to one of:
'GON'
'CGB'
And
GEOGRAPHY in table WISARD.SHIPREQ is equal to 'AP'
Signed by: Unsigned classes from local hard disk

FIG.3F

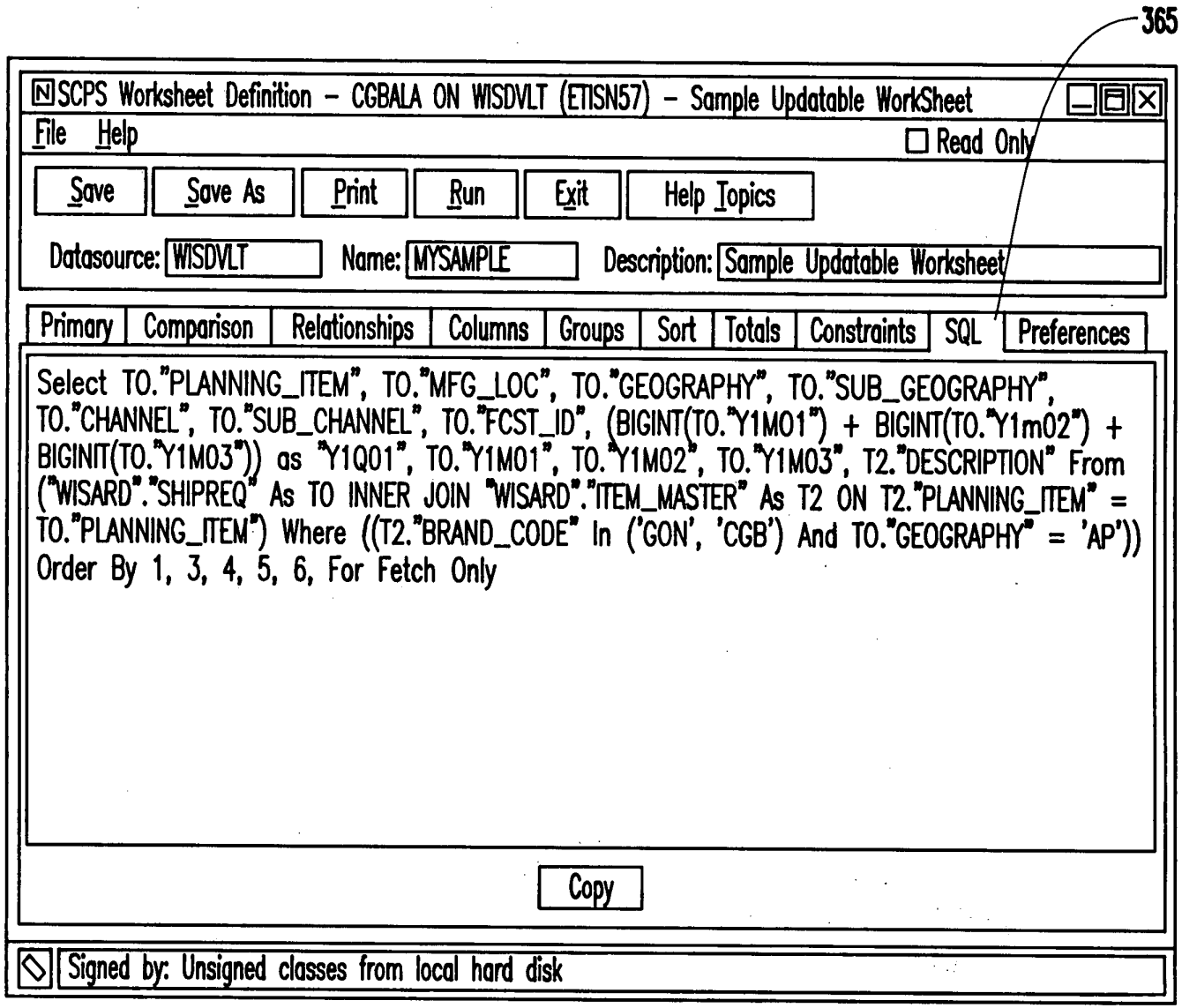

365
SCPS Worksheet Definition – CGBALA ON WISDVLT (ETISN57) – Sample Updatable WorkSheet
File Help
Read Only
Save
Save As
Print
Run
Exit
Help Topics
Datasource: WISDVLT
Name: MYSAMPLE
Description: Sample Updatable Worksheet
Primary
Comparison
Relationships
Columns
Groups
Sort
Totals
Constraints
SQL
Preferences
Select TO."PLANNING_ITEM", TO."MFG_LOC", TO."GEOGRAPHY", TO."SUB_GEOGRAPHY", TO."CHANNEL", TO."SUB_CHANNEL", TO."FCST_ID", (BIGINT(TO."Y1M01") + BIGINT(TO."Y1m02") + BIGINIT(TO."Y1M03")) as "Y1Q01", TO."Y1M01", TO."Y1M02", TO."Y1M03", T2."DESCRIPTION" From ("WISARD"."SHIPREQ" As TO INNER JOIN "WISARD"."ITEM_MASTER" As T2 ON T2."PLANNING_ITEM" = TO."PLANNING_ITEM") Where ((T2."BRAND_CODE" In ('GON', 'CGB') And TO."GEOGRAPHY" = 'AP')) Order By 1, 3, 4, 5, 6, For Fetch Only
Copy
Signed by: Unsigned classes from local hard disk

FIG.3G

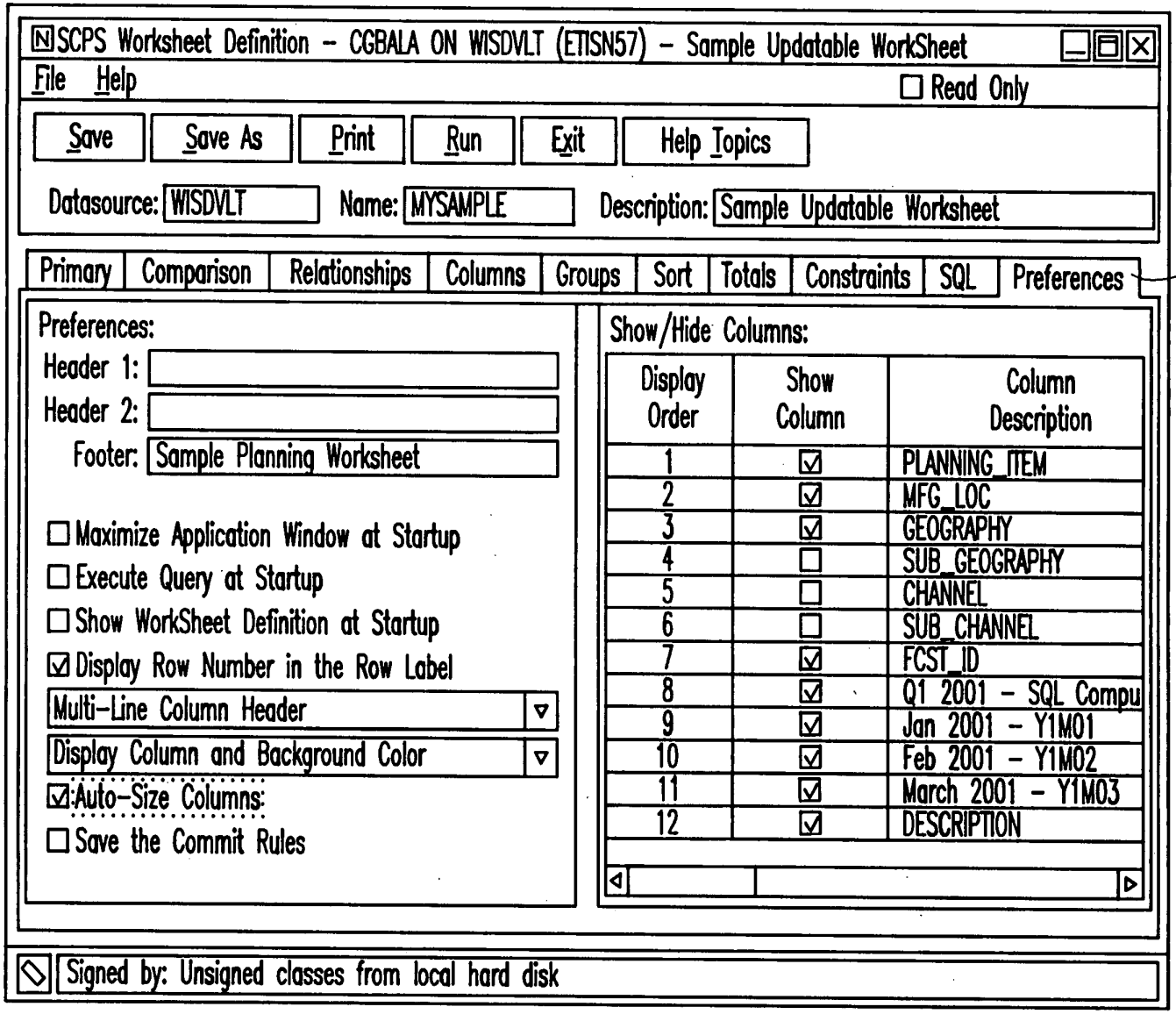


FIG.3H

10/20
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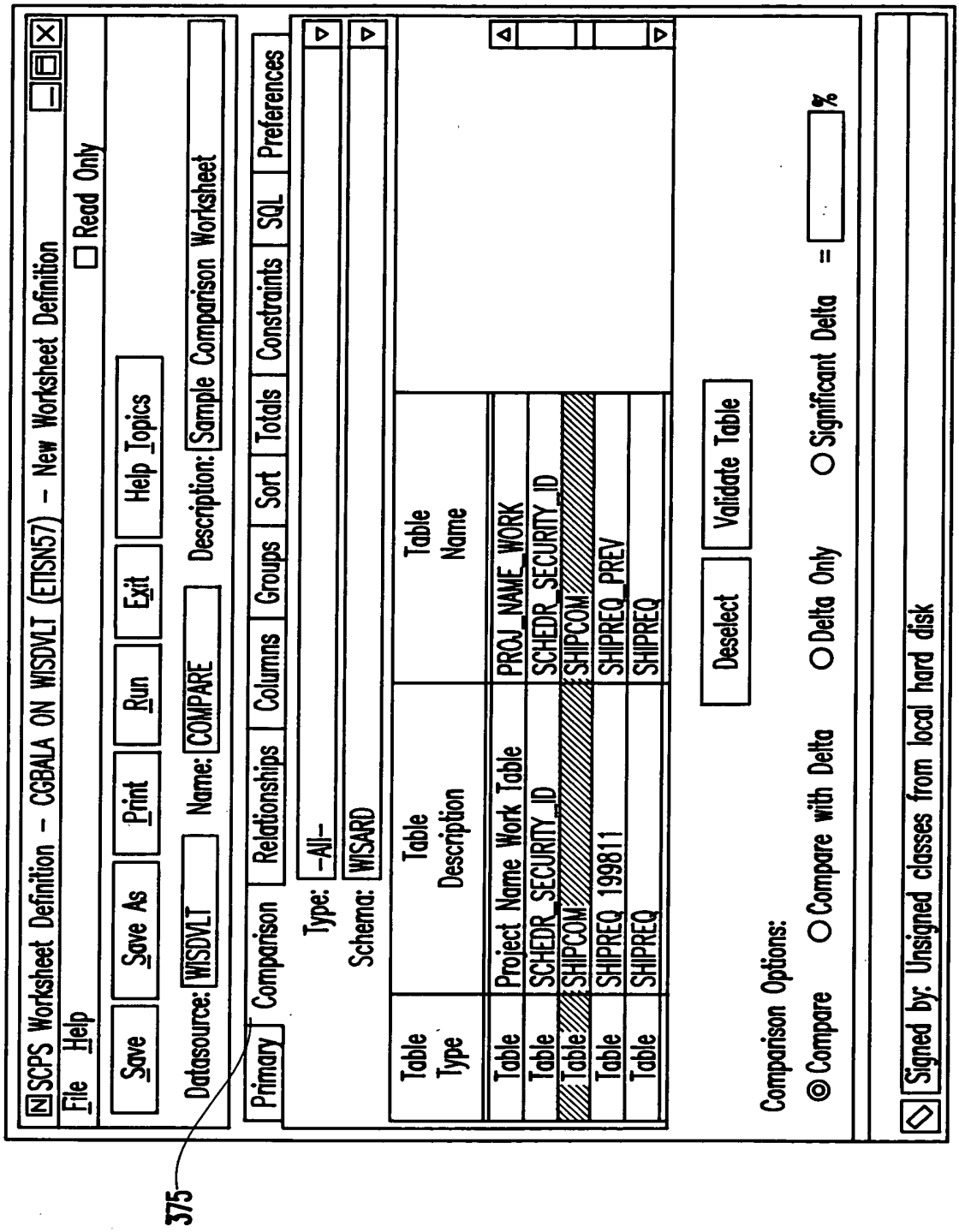
SCPS Worksheet Definition - CGBALA ON WISDVLT (ETISN57) - New Worksheet Definition
File Help
Save
Save As
Print
Run
Exit
Help Topics
Read Only
Datasource: WISDVLT
Name: COMPARE
Description: Sample Comparison Worksheet
Primary
Comparison
Relationships
Columns
Groups
Sort
Totals
Constraints
SQL
Preferences
Type: -All-
Schema: WISARD
Table Type
Table Description
Table Name
Table Project Name Work Table PROJ_NAME_WORK
Table SCHEDR_SECURITY_ID SCHEDR_SECURITY_ID
Table SHIPCOM SHIPCOM
Table SHIPREQ 199811 SHIPREQ_PREV
Table SHIPREQ SHIPREQ
Deselect
Validate Table
Comparison Options:
Compare
Compare with Delta
Delta Only
Significant Delta =
%
Signed by: Unsigned classes from local hard disk
375

FIG.31

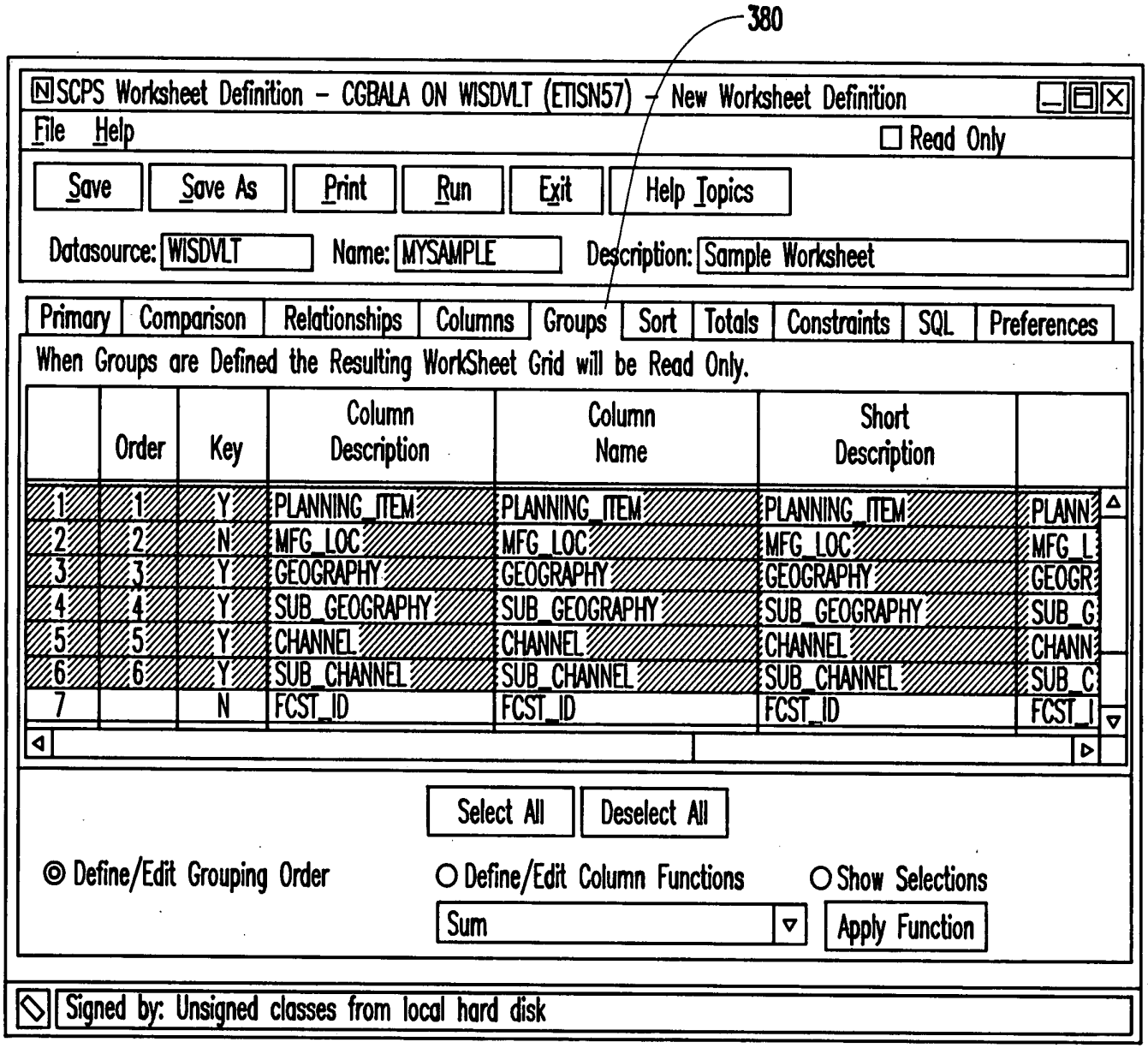
380
SCPS Worksheet Definition - CGBALA ON WISDVLT (ETISN57) - New Worksheet Definition
File Help
Read Only
Save
Save As
Print
Run
Exit
Help Topics
Datasource: WISDVLT
Name: MYSAMPLE
Description: Sample Worksheet
Primary
Comparison
Relationships
Columns
Groups
Sort
Totals
Constraints
SQL
Preferences
When Groups are Defined the Resulting WorkSheet Grid will be Read Only.
Order
Key
Column Description
Column Name
Short Description
1 1 Y PLANNING_ITEM PLANNING_ITEM PLANNING_ITEM PLANN
2 2 N MFG_LOC MFG_LOC MFG_LOC MFG_L
3 3 Y GEOGRAPHY GEOGRAPHY GEOGRAPHY GEOGR
4 4 Y SUB_GEOGRAPHY SUB_GEOGRAPHY SUB_GEOGRAPHY SUB_G
5 5 Y CHANNEL CHANNEL CHANNEL CHANN
6 6 Y SUB_CHANNEL SUB_CHANNEL SUB_CHANNEL SUB_C
7 N FCST_ID FCST_ID FCST_ID FCST_I
Select All
Deselect All
Define/Edit Grouping Order
Define/Edit Column Functions
Show Selections
Sum
Apply Function
Signed by: Unsigned classes from local hard disk

FIG.3J

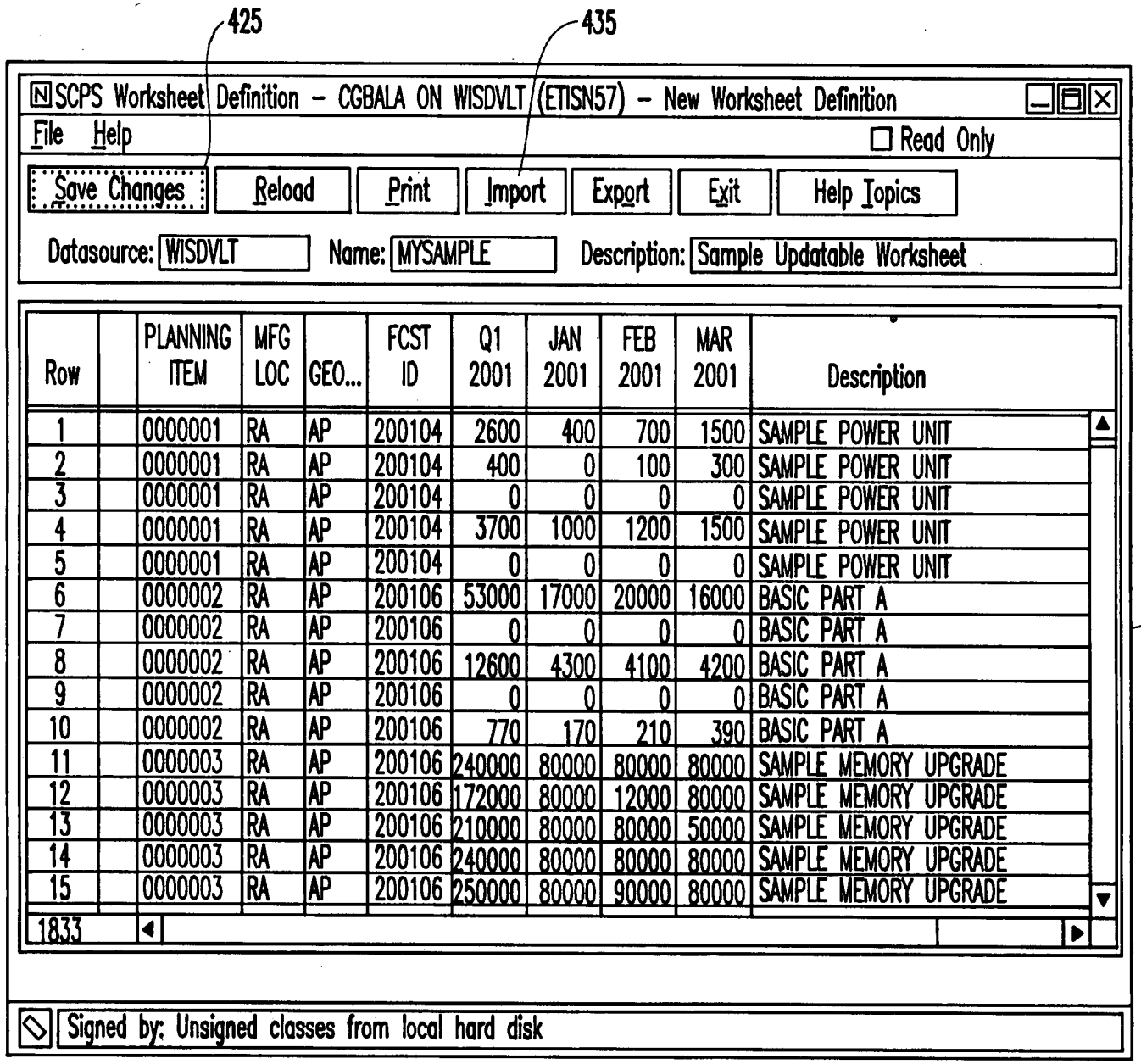
425
435
SCPS Worksheet Definition – CGBALA ON WISDVLT (ETISN57) – New Worksheet Definition
File Help
Read Only
Save Changes
Reload
Print
Import
Export
Exit
Help Topics
Datasource: WISDVLT
Name: MYSAMPLE
Description: Sample Updatable Worksheet
Row
PLANNING ITEM
MFG LOC
GEO...
FCST ID
Q1 2001
JAN 2001
FEB 2001
MAR 2001
Description
1 0000001 RA AP 200104 2600 400 700 1500 SAMPLE POWER UNIT
2 0000001 RA AP 200104 400 0 100 300 SAMPLE POWER UNIT
3 0000001 RA AP 200104 0 0 0 0 SAMPLE POWER UNIT
4 0000001 RA AP 200104 3700 1000 1200 1500 SAMPLE POWER UNIT
5 0000001 RA AP 200104 0 0 0 0 SAMPLE POWER UNIT
6 0000002 RA AP 200106 53000 17000 20000 16000 BASIC PART A
7 0000002 RA AP 200106 0 0 0 0 BASIC PART A
8 0000002 RA AP 200106 12600 4300 4100 4200 BASIC PART A
9 0000002 RA AP 200106 0 0 0 0 BASIC PART A
10 0000002 RA AP 200106 770 170 210 390 BASIC PART A
11 0000003 RA AP 200106 240000 80000 80000 80000 SAMPLE MEMORY UPGRADE
12 0000003 RA AP 200106 172000 80000 12000 80000 SAMPLE MEMORY UPGRADE
13 0000003 RA AP 200106 210000 80000 80000 50000 SAMPLE MEMORY UPGRADE
14 0000003 RA AP 200106 240000 80000 80000 80000 SAMPLE MEMORY UPGRADE
15 0000003 RA AP 200106 250000 80000 90000 80000 SAMPLE MEMORY UPGRADE
1833
400
Signed by: Unsigned classes from local hard disk

FIG.4

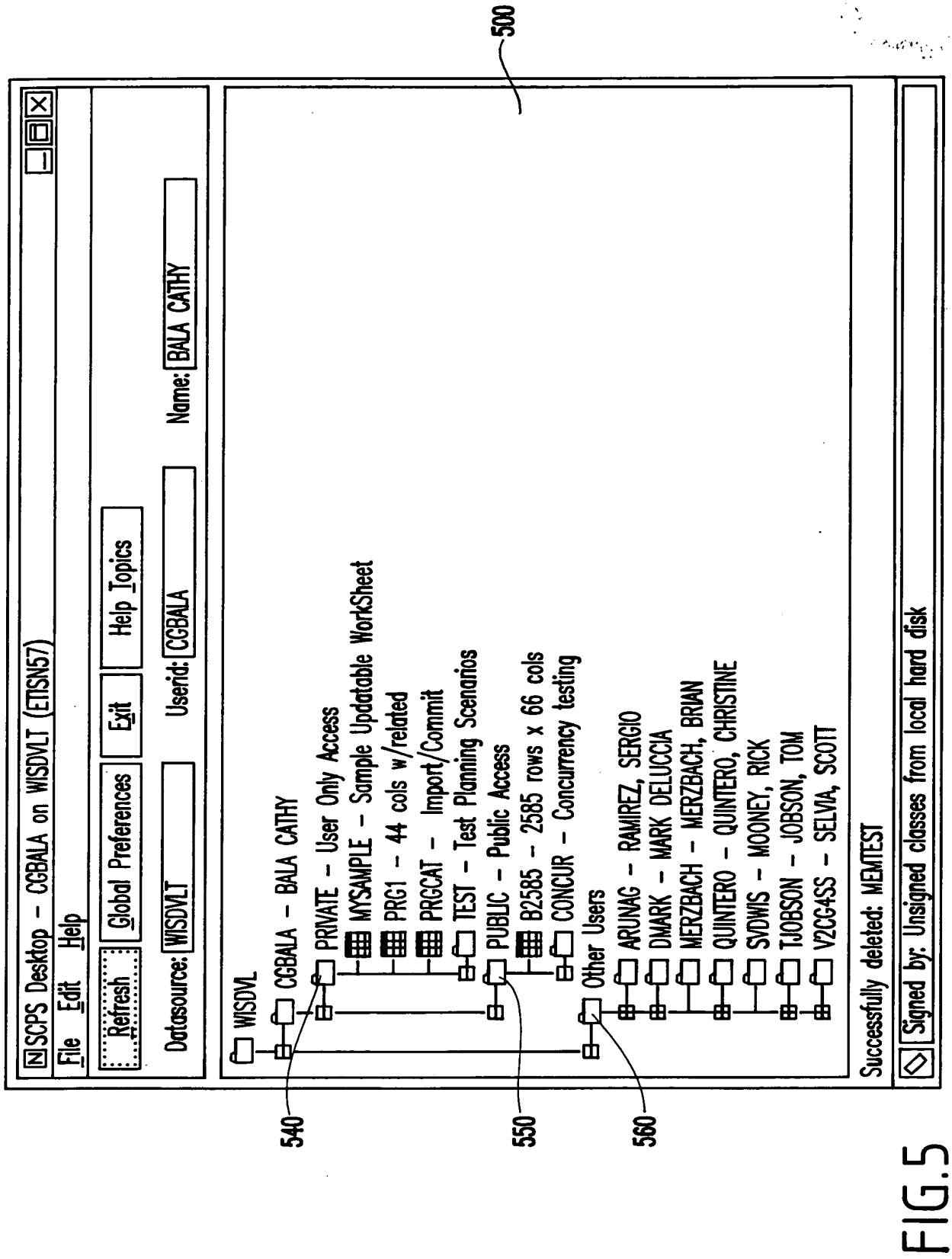
SCPS Desktop - CGBALA on WISDVLT (ETSN57)
File Edit Help
Refresh
Global Preferences
Exit
Help Topics
Datasource: WISDVLT
Userid: CGBALA
Name: BALA CATHY
500
WISDVL
CGBALA - BALA CATHY
PRIVATE - User Only Access
MYSAMPLE - Sample Updatable WorkSheet
PRG1 - 44 cols w/related
PRGCAT - Import/Commit
TEST - Test Planning Scenarios
PUBLIC - Public Access
B2585 - 2585 rows x 66 cols
CONCUR - Concurrency testing
Other Users
ARUNAG - RAMIREZ, SERGIO
DMARK - MARK DELUCCIA
MERZBACH - MERZBACH, BRIAN
QUINTERO - QUINTERO, CHRISTINE
SVDWIS - MOONEY, RICK
TJOBSON - JOBSON, TOM
V2CG4SS - SELVIA, SCOTT
Successfully deleted: MEMTEST
Signed by: Unsigned classes from local hard disk
540
550
560

FIG.5

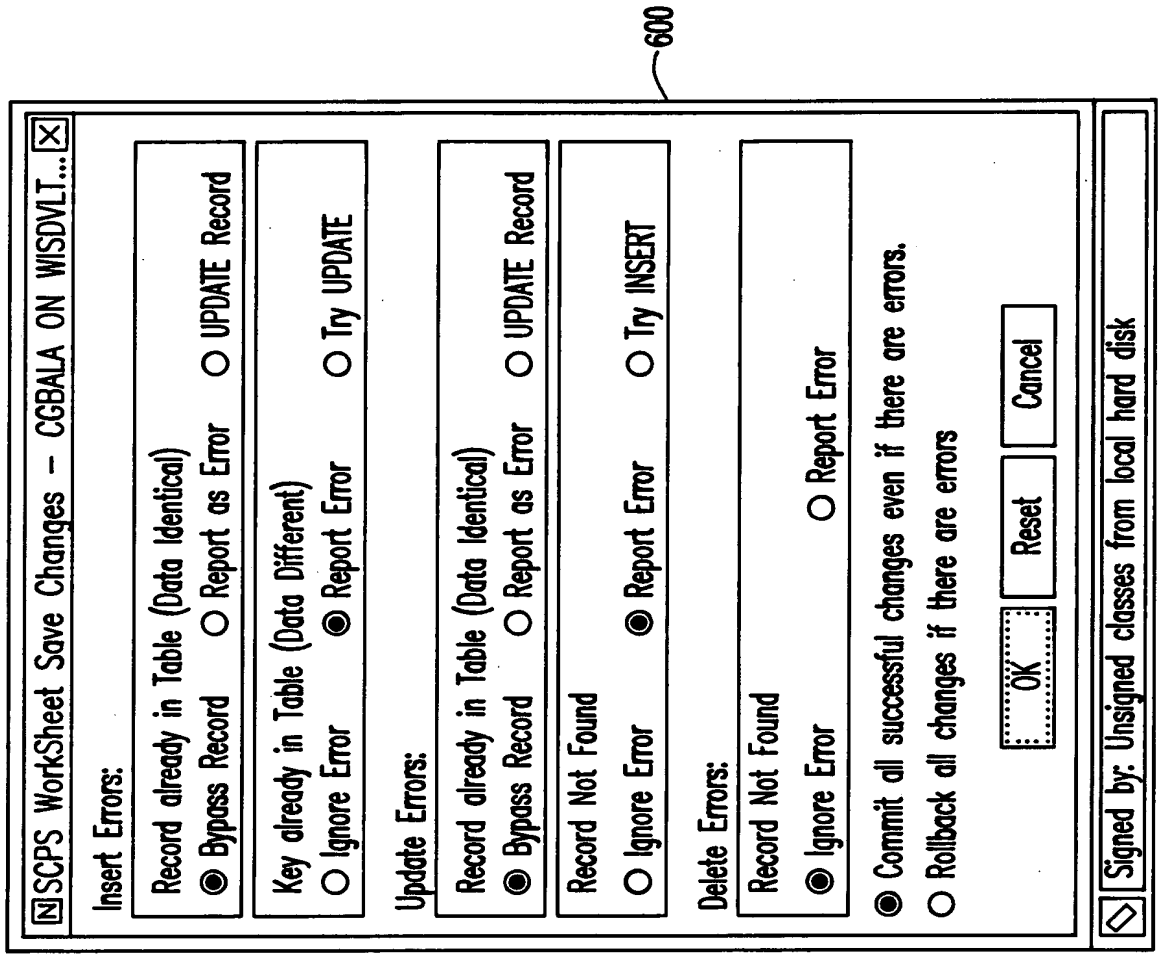
SCPS WorkSheet Save Changes - CGBALA ON WISDVLT...
Insert Errors:
Record already in Table (Data Identical)
Bypass Record
Report as Error
UPDATE Record
Key already in Table (Data Different)
Ignore Error
Report Error
Try UPDATE
Update Errors:
Record already in Table (Data Identical)
Bypass Record
Report as Error
UPDATE Record
Record Not Found
Ignore Error
Report Error
Try INSERT
Delete Errors:
Record Not Found
Ignore Error
Report Error
Commit all successful changes even if there are errors.
Rollback all changes if there are errors
OK
Reset
Cancel
Signed by: Unsigned classes from local hard disk
600

FIG.6A

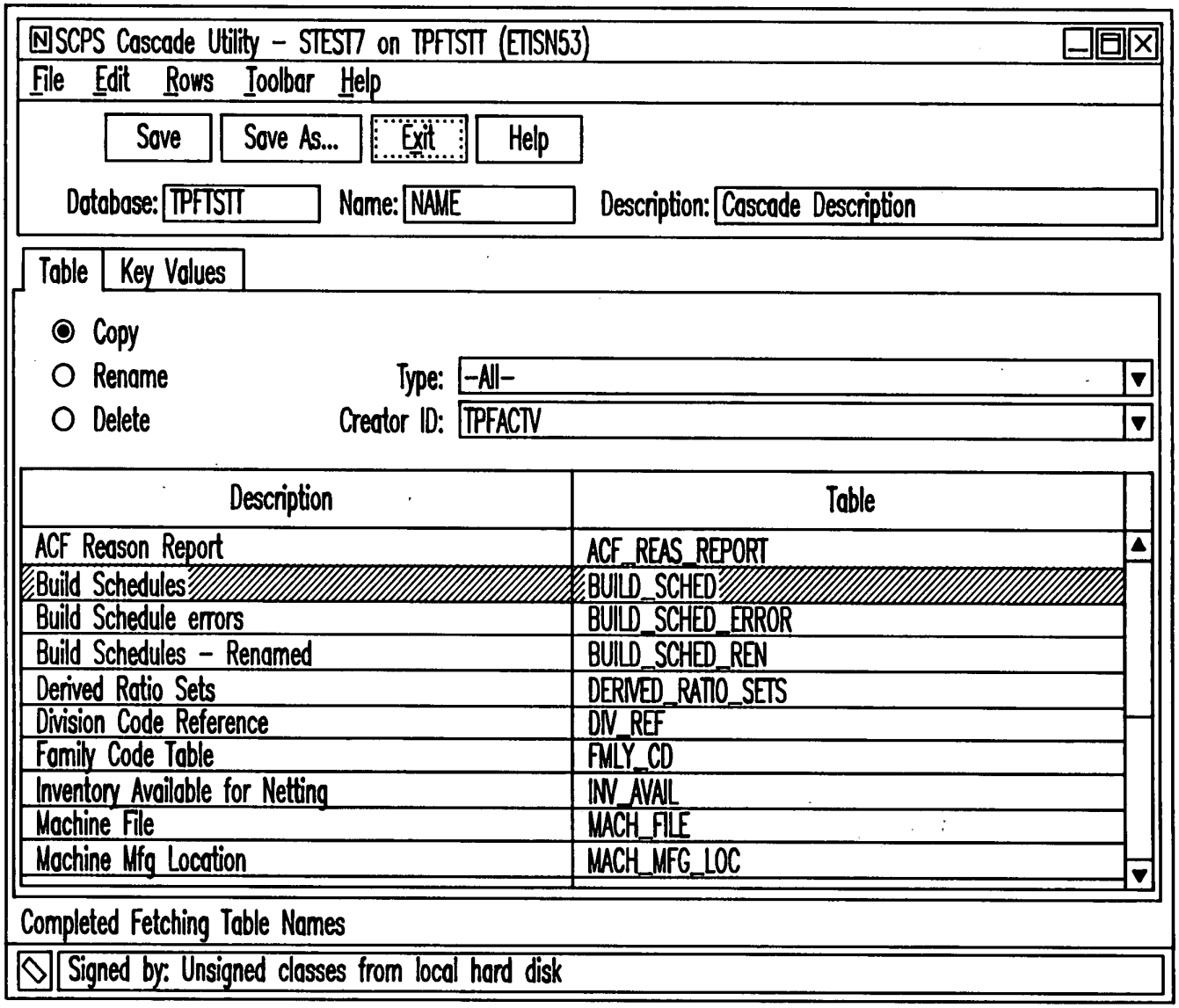
SCPS Cascade Utility - STEST7 on TPFTSTT (ETISN53)
File Edit Rows Toolbar Help
Save
Save As...
Exit
Help
Database: TPFTSTT
Name: NAME
Description: Cascade Description
Table
Key Values
Copy
Rename
Delete
Type: --All--
Creator ID: TPFACTV
Description
Table
ACF Reason Report
ACF_REAS_REPORT
Build Schedules
BUILD_SCHED
Build Schedule errors
BUILD_SCHED_ERROR
Build Schedules - Renamed
BUILD_SCHED_REN
Derived Ratio Sets
DERIVED_RATIO_SETS
Division Code Reference
DIV_REF
Family Code Table
FMLY_CD
Inventory Available for Netting
INV_AVAIL
Machine File
MACH_FILE
Machine Mfg Location
MACH_MFG_LOC
Completed Fetching Table Names
Signed by: Unsigned classes from local hard disk

FIG.6B

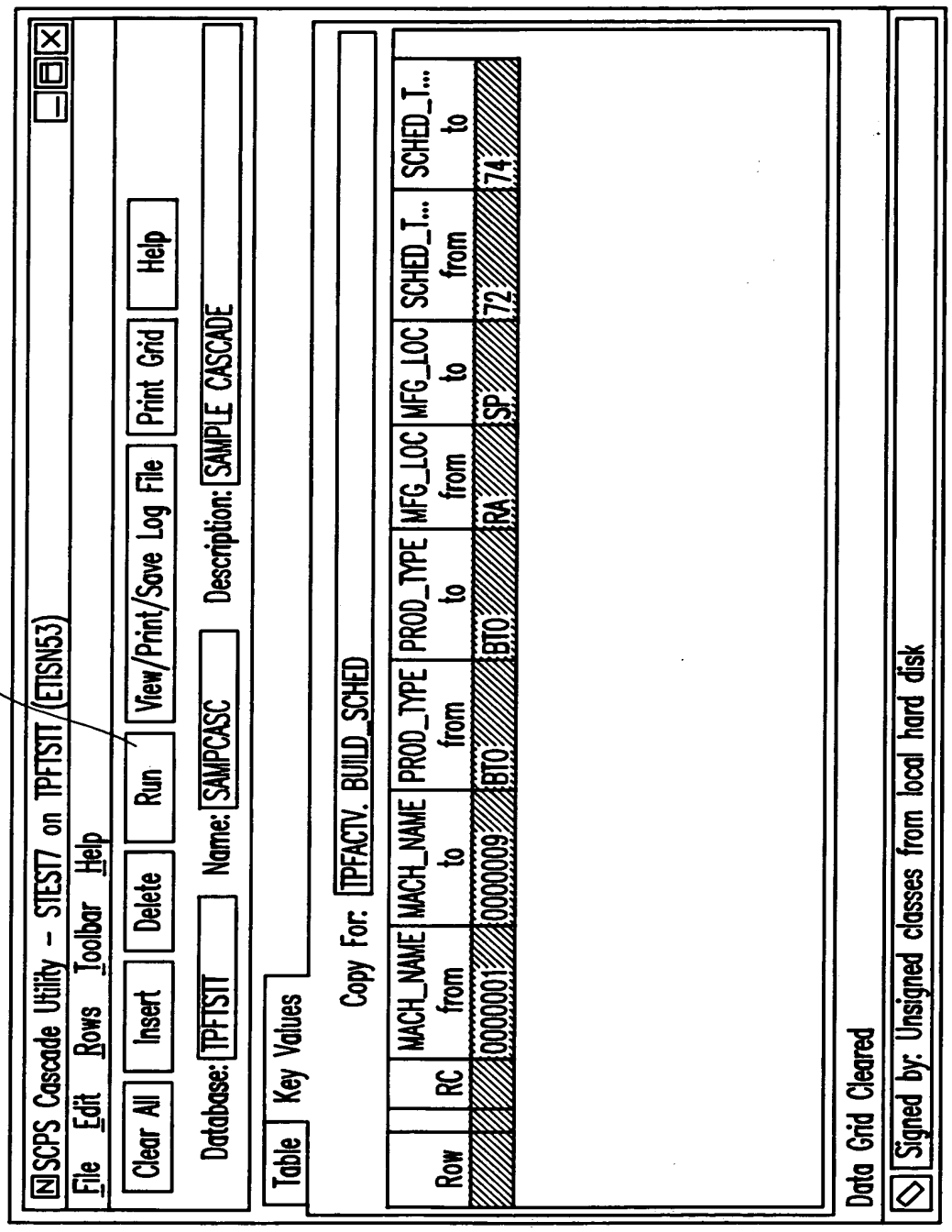
620
SCPS Cascade Utility - STEST7 on TPFTSIT (ETISN53)
File Edit Rows Toolbar Help
Clear All
Insert
Delete
Run
View/Print/Save Log File
Print Grid
Help
Database: TPFTSIT
Name: SAMPCASC
Description: SAMPLE CASCADE
Table
Key Values
Copy For: TPFACTV. BUILD_SCHED
Row
RC
MACH_NAME from
MACH_NAME to
PROD_TYPE from
PROD_TYPE to
MFG_LOC from
MFG_LOC to
SCHED_T... from
SCHED_T... to
00000001
00000009
EBTO
EBTO
RA
SP
72
74
Data Grid Cleared
Signed by: Unsigned classes from local hard disk

FIG.6C

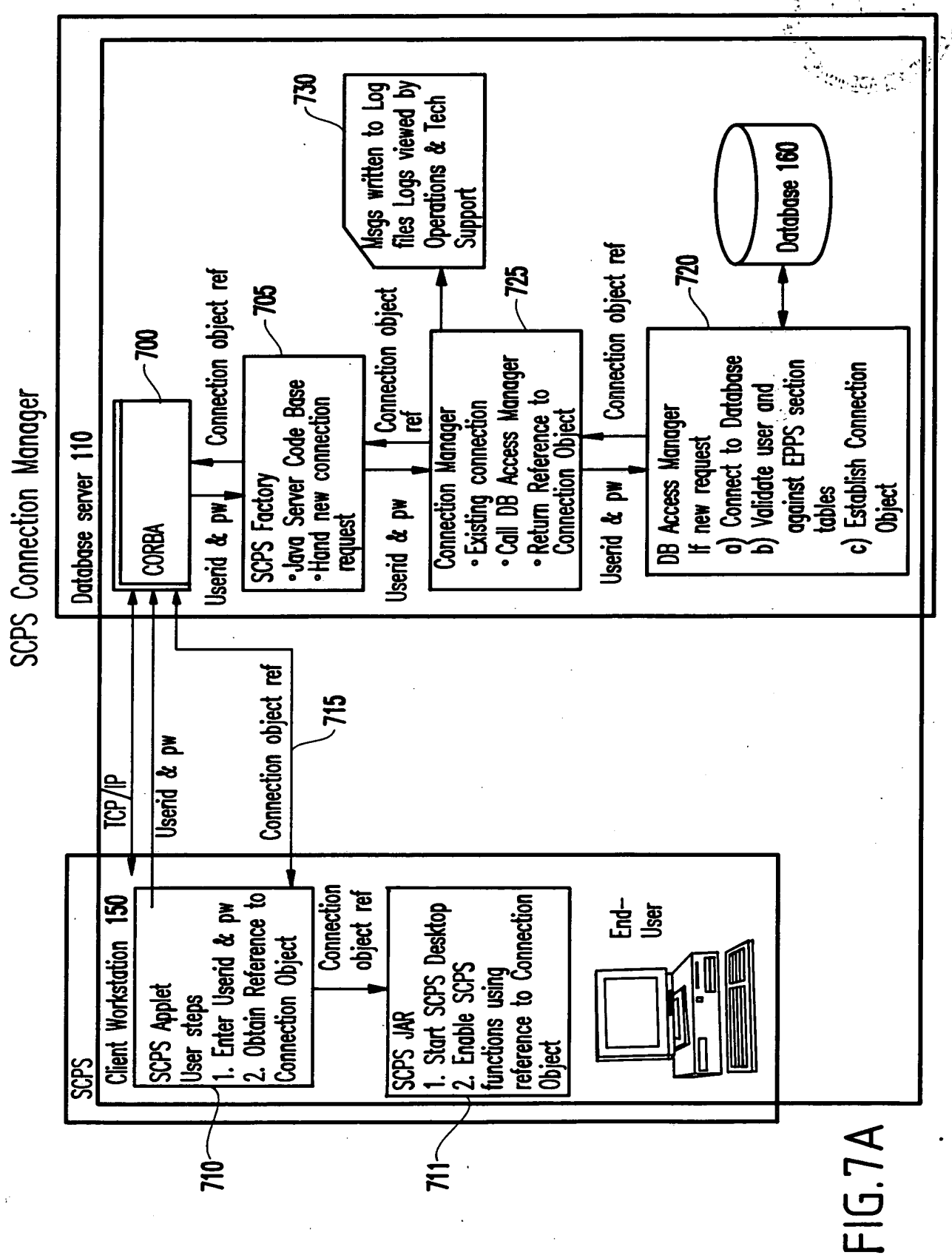
SCPS Connection Manager
Database server 110
CORBA
700
Connection object ref
Userid & pw
SCPS Factory
•Java Server Code Base
•Hand new connection request
705
Connection object ref
Userid & pw
Connection Manager
•Existing connection
•Call DB Access Manager
•Return Reference to Connection Object
725
Connection object ref
Userid & pw
DB Access Manager
If new request
a) Connect to Database
b) Validate user and against EPPS section tables
c) Establish Connection Object
720
Database 160
Msgs written to Log files Logs viewed by Operations & Tech Support
730
SCPS
Client Workstation 150
SCPS Applet
User steps
1. Enter Userid & pw
2. Obtain Reference to Connection Object
710
TCP/IP
Userid & pw
Connection object ref
715
Connection object ref
SCPS JAR
1. Start SCPS Desktop
2. Enable SCPS functions using reference to Connection Object
711
End-User

FIG.7A

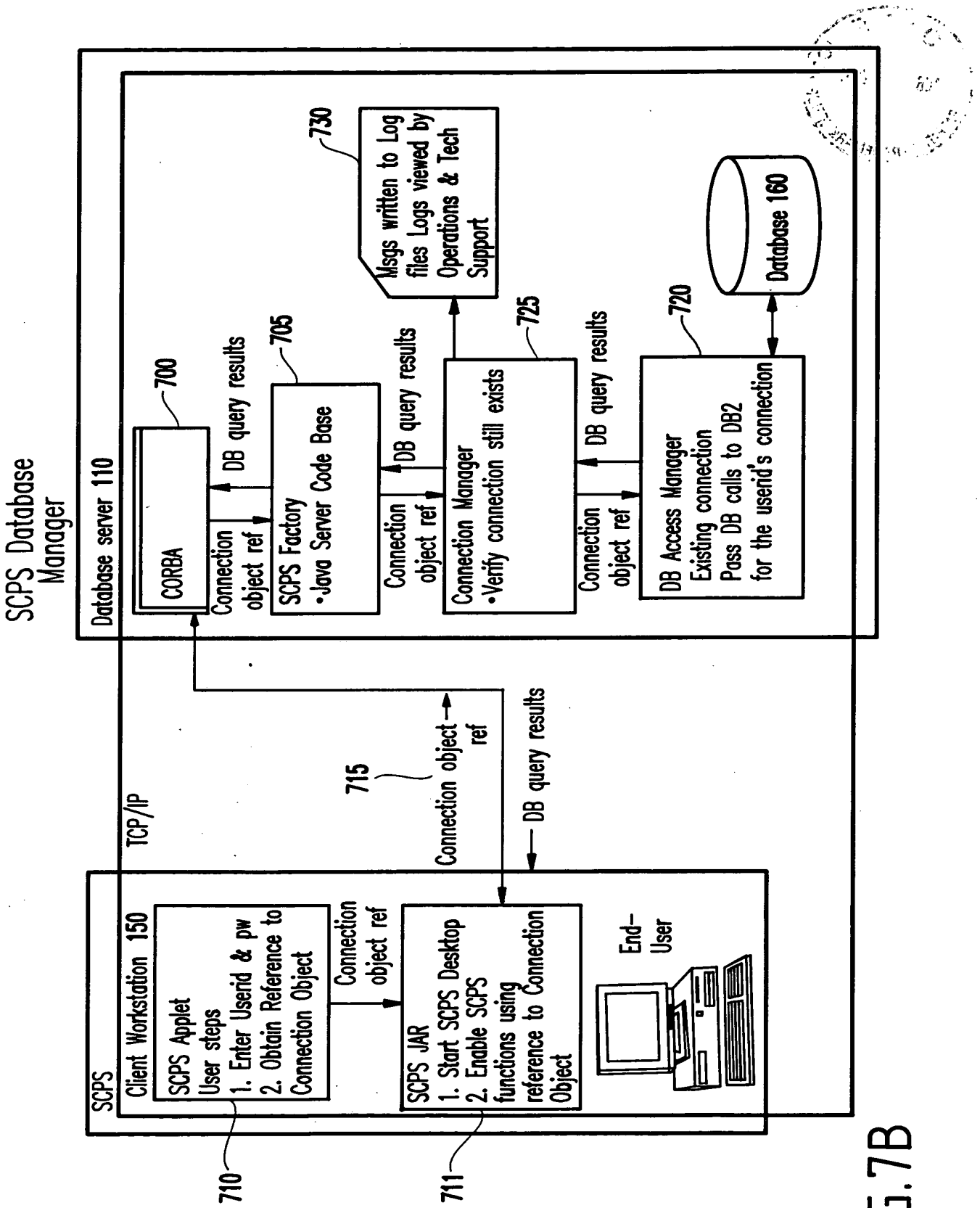
SCPS Database Manager
Database server 110
CORBA
700
Connection object ref
DB query results
SCPS Factory
•Java Server Code Base
705
Connection object ref
DB query results
Connection Manager
•Verify connection still exists
725
Connection object ref
DB query results
DB Access Manager
Existing connection
Pass DB calls to DB2
for the userid's connection
720
Database 160
730
Msgs written to Log files Logs viewed by Operations & Tech Support
715
Connection object ref
DB query results
TCP/IP
SCPS
Client Workstation 150
SCPS Applet
User steps
1. Enter Userid & pw
2. Obtain Reference to Connection Object
Connection object ref
SCPS JAR
1. Start SCPS Desktop
2. Enable SCPS functions using reference to Connection Object
End-User
710
711

FIG.7B

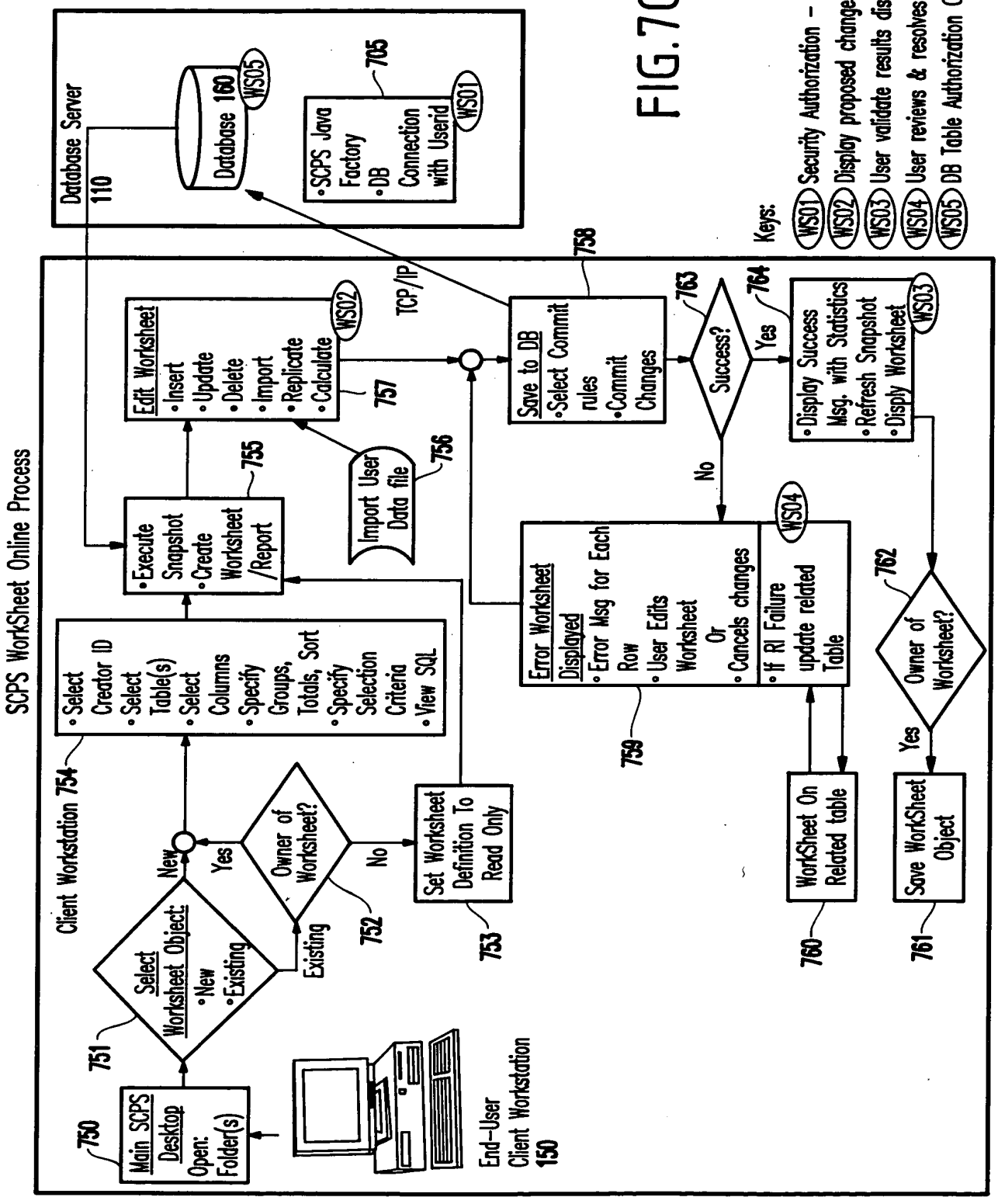
SCPS WorkSheet Online Process
Client Workstation 754
End-User Client Workstation 150
Main SCPS Desktop Open: Folder(s)
750
Select Worksheet Object: •New •Existing
751
New
Existing
Yes
No
Owner of Worksheet?
752
Set Worksheet Definition To Read Only
753
•Select Creator ID •Select Table(s) •Select Columns •Specify Groups, Totals, Sort •Specify Selection Criteria •View SQL
754
•Execute Snapshot •Create Worksheet /Report
755
Import User Data file
756
Edit Worksheet •Insert •Update •Delete •Import •Replicate •Calculate
WS02
757
TCP/IP
Save to DB •Select Commit rules •Commit Changes
758
Success?
763
Yes
764
No
Error Worksheet Displayed •Error Msg for Each Row •User Edits Worksheet Or •Cancels changes
759
WS04
•If RI Failure update related Table
WorkSheet On Related table
760
•Display Success Msg. with Statistics •Refresh Snapshot •Disply Worksheet
WS03
Owner of Worksheet?
762
Yes
Save WorkSheet Object
761
Database Server 110
Database 160
WS05
•SCPS Java Factory •DB Connection with Userid
705
WS01
Keys:
WS01 Security Authorization – Login to Node
WS02 Display proposed changes on worksheet
WS03 User validate results displayed
WS04 User reviews & resolves errors
WS05 DB Table Authorization Check

FIG.7C